

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

15 SEPTEMBER 1977

## ... FROM THE EDITOR

If the population of the University of Alberta were taken together, the University probably would be the fourth or fifth largest city in the province. *Folio's* job is to be a medium of communication within that city, to let its citizens know about each other's work, as well as to act as a gazette in the reporting of the Board of Governors, Senate, and General Faculties Council meetings, and as a notice board for campus events.

Several years ago, a system of correspondents, one in each department, was set up to keep *Folio* in touch with campus people and events. Several departments have actively maintained these correspondents, who perform a considerable service for *Folio* and for their departments.

However, several years have passed since that system was arranged, and now we find that many people in University departments do not know how or when to send material for publication in *Folio*. Because *Folio* has a comparatively small staff who are unable to be everywhere at once, we discover stories about projects in departments in a rather *ad hoc* way, and frequently we don't know about events until after they have happened.

Therefore, we offer the following suggestions for your benefit and *Folio's*.

- If you or your department is engaged in a project that you believe may be of interest to *Folio* readers, call or write a note about it to the Editor. We prefer that you do not submit articles that you have written to *Folio*: our staff usually write *Folio's* articles and check back to the origin to assure accuracy.

- If your department does not already have a *Folio* correspondent, we suggest that one be appointed. It is one of the less onerous tasks a staff member can be asked to undertake. Once a *Folio* correspondent has been appointed, please let the Editor know the correspondent's name and how he or she can be reached.

- **Deadlines.** *Folio* is published weekly throughout the year on Thursdays. To assure publication on time, it must follow a very rigid schedule. The normal deadline for material to reach *Folio* is 9 a.m. on the Friday before publication; for long weekends, this deadline becomes Thursday at 9 a.m. If it is at all possible, though, we would



Richard Kerr

prefer to hear from you two or more weeks in advance of any special event, so that we can do more for it than simply publishing a rushed, terse notice.

- **People, visitors, and books.** Notes about the activities of University staff, visitors, and books have always been an important part of *Folio*. However, because of the constraints of fitting the available material into a suitable number of pages, it is frequently necessary to hold these short notices over for publication in a subsequent issue.

- **Personal notices.** The deadline for personal notices (advertisements) is also Fridays at 9 a.m. (Thursdays at 9 a.m. before a long weekend). To save us the expense of invoicing, all personal notices should be prepaid, at a cost of fifteen cents per word for the first appearance of the advertisement, and five cents per word for subsequent printings of the same notice. This barely covers that cost of printing the personal notices section.

## BOARD OF GOVERNORS

*The regular meeting of the Board of Governors was held 9 September, Friday. The following items were among those discussed.*

### COLLEGE UNIVERSITAIRE SAINT-JEAN

After consideration of a recommendation of the General Faculties Council to the effect that Collège Universitaire Saint-Jean be given full Faculty status with all the rights and responsibilities that Faculty status implies, the Academic Concerns Committee recommended to the Board that the recommendation be approved. The Board approved the recommendation.

### "FORCE MAJEURE" STATEMENT FOR CALENDARS:

The Board endorsed the following statement for publication in University Calendars: "The calendar sets forth the intention of the University, at the time of its publication, with respect to all matters contained therein. The University reserves the right at any time to

deviate from what appears in the calendar, either in order to serve the best interests of the University, or because of circumstances or occurrences beyond the University's reasonable control. The University expressly denies responsibility or liability to any person or persons who may suffer loss or who may be otherwise adversely affected by such change."

## SENATE MEETING

On Friday, 23 September, at 9:30 a.m. in the Club Room of the Jubilee Auditorium, the Senate of the University of Alberta will hold its first meeting of this academic year. The subject of the meeting is the purpose of the University.

During the last Senate Meeting, 29 April, speakers representing various sectors of the public addressed the issue. On 23 September various members of the academic community will speak on the topic "The University of Alberta: toward a statement of purpose." Among those invited to speak are Frank Jones, Dean, Faculty of Law; Erwin Diener, Chairman, Department of Immunology, Faculty of Medicine; Amy Zelmer, Dean, Faculty of Nursing; and George Baldwin, Dean, Faculty of Arts. The guest speakers are intended to represent divergent opinions from the professional schools, scientific research, and the humanities on a major public perception that a primary purpose of the University should be to prepare Albertans for jobs.

The public is welcome to this meeting, but it should be noted that seating in the Club Room is limited.

## THE OFFICE OF STUDENT AFFAIRS

The Office of Student Affairs wishes to draw the attention of faculty staff and graduate teaching assistants to the services they offer students at their new offices in 225 Athabasca Hall.

With the experience of registration behind them many students may feel that they have conquered the worst the University has to offer. At the risk of bearing bad tidings, the Office of Student Affairs would like to offer their services to any students who are in need of information about or assistance with any of the day-to-day frustrations of functioning in such a large institution as the University.

The Office of Student Affairs also maintains a Study and Travel Abroad Reference Room that will be of special interest to those who are interested in studying outside of Canada.

## THE GREAT BOOK RUSH

*(The following article has been reprinted with the kind permission of IBM Canada Limited from Data Processor, Volume 7, Number 1, 1977):*

The University of Alberta Bookstore's IBM 3650 Retail Store System is the first in a university bookstore.

At first glance, the system might appear a bit overpowered, but when over 20,000 students at the university all try to get their texts at the same time during the first week of lectures, the bookstore's business soars to levels comparable to that of a major metropolitan department store.

Jim Malone, manager of the bookstore, had long been considering a system to handle the strain of these hectic days, on any one of which as much as eight % of the year's total business might be transacted. Mr. Malone who had worked in the bookstore while studying commerce at the university in the 50s, returned in 1969 to manage the enterprise.

"A number of considerations led me to contemplate a complete store management system that would utilize the resources of the IBM System/370 Model 145 in our Office of Administrative Systems," said Mr. Malone.

"First, we had to replace our existing cash registers, and had appropriated the necessary funds in our equipment replacement account. Second, even though we more than doubled our staff of 38 with part-time workers during peak periods, student line-ups were getting longer and longer every year."

"Finally, we hoped to develop an inventory control system that would help up avoid two key problems of the university bookstore management—running out of current textbooks

in the first few days of term and being stuck with excessive stock of obsolete texts."

Two IBM Systems Engineers from the Edmonton Office worked with personnel from the university's Office of Administrative Systems and Mr. Malone over a period of several months to tailor the new 3650 Retail Store System to the store's requirements.

The first step was to replace the existing cash registers with ten IBM 3653 Point-of-Sale Terminals. While each unit was potentially an advanced interactive transaction processing device, it could also function as a stand-alone electronic cash register.

What turned the ten units into a system was the IBM 3651 Model B50 Store Controller, which was to act as the data collector and communications controller for the terminals; as well as switching and routing messages to and from the System/370 host processor.

The 3651 has the potential to serve many times the store's ten point-of-sale units. Its 9.3 megabyte disk easily accommodates the day's transactions and then, under normal conditions, transfers the data to the host computer each evening. Should any problems occur with the host computer, the store controller could actually accumulate data for several days at peakload without adversely affecting the bookstore operation.

(The controller also has program storage of 57,344 bytes with a storage expansion feature, which allows a maximum of 106,496 bytes for basic function and user written application program storage.)

The actual interface with the System/370 is provided by a 3704 Communications Controller. Both the 3651 and 3704 are in the machine room of the Office of Administrative Systems, but they could just as easily be thousands of feet from each other. The decision to locate the 3651 in the OAS machine room was a deliberate one with the intent of keeping it available to be shared by other potential users on campus.

The major cable link is, therefore, between the controller and the terminals in the bookstore, which is located in the Students' Union Building. One last minute difficulty during installation was the availability of the 4,500 feet of two-wire cable, which was to form the connecting loop between the controller and the other system components. But things were soon resolved and the actual hooking up of the system was performed three weeks before the store's peak period would begin.

The programs to operate the point-of-sale terminals and the store controller were provided by IBM, but it was necessary to implement the latest versions of IBM's operating system and communications software. This meant the introduction of OS/VS1 and Release 5

# FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

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Jeanette Rothrock, Editor

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with VTAM and VSAM, NCP Version 4 and RBCS II. In addition, before these programs were operable, the Office of Administrative Systems took on the task of writing and testing an application program to interface the new data with the previous sales reporting programs.

By the time students were converging on the counters, the system was checked out, up and running, ready to capture data of the mass transactions. The crush was worse than ever—some 7,500 students poured into the bookstore in one day, between 9 a.m. and 11 p.m., when the aisles were finally cleared. The initial stage of development had little effect on the speed with which customers could be processed. It did, however, successfully replace the obsolete cash registers and laid the foundation for the subsequent step which will significantly speed customer processing.

Already on-line is an IBM 3657 Ticket Unit and a 3275 display station. The ticket unit can print tickets giving two lines of alphanumeric information, including price and department number. The same information, as well as the International Standard Book Number (ISBN), is encoded on a magnetic strip between the two lines. Once the label is attached to the merchandise, it can be read by a magnetic wand attached to each terminal, and can automatically enter the data into the system. By saving the operator's time, this should greatly increase the speed of customer checkout. The wands will be activated as soon as a sufficient portion of the stock has been ticketed.

Last fall's application of the new system has saved Mr. Malone the usual headaches caused by the use and conversion of paper tape, which at times resulted in extensive delays in producing the sales breakdowns following the big push. This year, even after the heaviest day, the sales transaction data was successfully staged overnight to the host and departmental sales totals were available for the following morning.

The IBM 3650 Retail Store System is an excellent example of IBM's distributed processing systems. Processing intelligence is distributed to several levels of the system. The point-of-sale terminals are capable of functioning on their own, independent of the store controller and, thus, allow the store to keep operating even when technical difficulties occur. This has proven to be a significant benefit to the university bookstore on at least one occasion during the implementation period. The built-in backup facilities have alleviated the pressures normally associated with running an on-line data processing system. It is, therefore, a working example of industry trends.

"We can go on improving and sophisticating

this system for years," says Mr. Malone.

"I'm just beginning to think of tying in functions such as order processing and operator call-up for price information."

"But the system just as it stands has met my expectations amply. We weren't taking a narrow short-term view of dollars and cents justification when we installed it. It improves service . . . and that, as a university bookstore, is our primary aim—not just to save money, but also to give better service."

Peter Watts, Director of the Office of Administrative Systems is pleased by the system and says: "The IBM 3650 Retail Store Systems provides an effective means of capturing sales transaction data at the point of sale."

### THE EDWARD HERBERT BOOMER MEMORIAL LECTURES

This year the Edward Herbert Boomer Memorial Lectures will be given by Professor Wilhelm Simon. Professor Simon studied chemistry at the Eidgenössische Technische Hochschule Zürich, the Swiss Federal Institute of Technology, graduating in 1953, and then continued his studies there in the Department of Organic Chemistry with Professor V. Prelog and Professor E. Heilbronner. Upon obtaining his doctorate degree in 1956 he joined the staff, and is presently teaching analytical chemistry and the application of spectroscopic techniques in organic chemistry. Since 1970 he has been a full professor at ETHZ.

In the past, Professor Simon's research interests included acid-based equilibria using glass electrodes, automation of elemental analysis, and vapor pressure osmometry. Now, his research is largely focussed upon ion selectivity or organic compounds and biological systems, ion selective sensors, thermal fragmentation of organic compounds, liquid chromatography, and the application of spectroscopic methods for the elucidation of the structure of organic compounds. He has published about two-hundred papers covering these fields, and in 1964 he received the Swiss Chemical Society Award.

The lecture series is sponsored by the Department of Chemistry, and everyone is invited to attend. The lectures include: "Chemical architecture: design of ion selective components for liquid membrane electrodes of high selectivity," on 19 September at 11 a.m.; "The use of ion selective electrodes—analytical, biological, and medical perspectives," on 20 September at 4 p.m.; "Pyrolysis/mass spectrometry—a technique that subjects even bacteria to chemical analysis," on 21 September at 11 a.m.; "Ions are transported selectively through biological membranes. What answers do chemical model

systems furnish?" on 22 September at 4 p.m. The location of all lectures will be posted in the Chemistry Centre.

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## NOTICES

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### VISITOR PARKING

Staff members are reminded that advance parking arrangements should be made with Parking Services for persons invited to the University as guest speakers or for other purposes related to Departmental functions. This cooperation is necessary so that such persons may park their vehicles on the Campus in accordance with the Traffic and Parking Regulations of the University.

### SCIENCE DINING CLUB

The Science Dining Club will meet at 6 p.m. on 20 September. Professor R.E. Folinsbee, Department of Geology, will speak on the topic "World's view—from alph to zipf." Dinner following. Faculty Club, Saskatchewan Room. Reservations by 16 September. Contact Mrs. Grant, Faculty of Science, telephone 432-4757.

### BUDDHIST SOCIETY

The Buddhist Society of Edmonton will meet on the first and third Wednesdays of each month to study the Zen Platform Sutra and to practice metta meditation. Meetings will be held in the Soroptimist Room of the downtown YWCA from 7:30 p.m. to 8:30 p.m.

### SINGLES GROUP ON CAMPUS

Persons who may be interested in forming a singles group on campus are invited to call the Office of Student Affairs, telephone 432-4145 during the day or 483-5992 during the evening.

### DENTAL HYGIENE CLINIC

The Dental Hygiene Clinic is accepting patients for oral prophylaxis (teeth cleaning). Please call 432-4151 for an appointment.

### SUB INFORMATION DESK

The Information Desk will begin winter hours on 6 September. Any information about upcoming events such as plays, films, lectures, poetry readings, concerts, art exhibitions, sports events, and so on that are either on or near campus may be sent to the Information Desk. Your cooperation would be greatly appreciated. You may send your information to S. Kostamo, Information Desk, Students' Union Building, telephone 432-4271.

### ACADEMIC WOMEN'S ASSOCIATION

The first meeting of the Academic Women's Association for the fall term will be held on Wednesday, 21 September at 7:30 p.m. in the Saskatchewan Room of the Faculty Club. The meeting will be a wine and cheese party, with discussions and group action on day care, a resumé of proposed AWA activities for 1977-78, and opportunities to meet new

members. All women on academic staff at the University are invited to attend. For further information, telephone Linda Fitz at 432-4639.

#### **SCOTTISH COUNTRY DANCE CLUB**

The University Scottish Country Dance Club will conduct classes every Tuesday at 8:30 p.m. in the Windsor Park Elementary School, 8720 118 Street. Everyone is welcome. Soft soled shoes are required.

#### **LECTURE ON HUMAN ENERGY CRISIS**

The Institute of Public Administration of Canada, Edmonton Chapter, in cooperation with IBM Canada Limited, is presenting the annual W. Clifford Clark Memorial Lecture on Management of Multinationals, on 20 September, Tuesday. This year's lecture is "Solving the human energy crisis," by Jacques G. Maisonneuve.

Mr. Maisonneuve is Director and Chief Executive Officer of the IBM World Trade Europe/Middle East/Africa Corporation, President of IBM Europe, and Chairman of the Board, IBM World Trade Corporation. An engineering graduate of the Ecole centrale de Paris, he holds several other key positions with IBM and is also Director of the European Institute of Business, and a Counsellor of the French Chamber of Commerce in the United States.

The lecture will be held at 12 noon in the Tonquin Room of the Macdonald Hotel. A lunch will be served, at a charge of \$5.50. Reservations for the lunch and lecture should be made by 19 September, Monday, by telephoning Liette Bigras, at 425-6410.

#### **GENERAL FACULTIES COUNCIL COMMITTEE VACANCIES**

Nominations are sought for one person to be elected by the General Faculties Council to serve on the Selection Committee for a Chairman of the Department of Political Science. Regulations governing the composition of selection committees for a chairman require that one member, not a member of the department concerned, be elected by GFC. Those who have suggestions for nominations or who are interested in serving on the above committee are requested to contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715.

#### **RADIATION SAFETY COURSE**

The Radiation Control Committee is planning on holding another Radiation Safety Course for individuals using or planning to use radioactive materials at the University. The course is designed to give individuals, primarily at the technician level, some basic training in the safe use of radioactive materials in the laboratory. However, graduate students, faculty members, and other interested persons are welcome. The next course is scheduled

to begin on 26 September. Enrolment is restricted to fifteen persons. There will be a fee of \$1 to cover that cost of training manuals. Those persons interested in attending the course may obtain registration forms from the Radiation Control Office, telephone 432-5655.

#### **FACULTY CURLING ASSOCIATION**

The Faculty Curling Association begins league play on 6 October. Draws are scheduled for 5 p.m., 7 p.m., and 9 p.m. on Thursdays. Those persons interested in participating are urged to attend the organizational meeting on 27 September at 5 p.m. in the Saskatchewan "A" room of the Faculty Club. Further information may be obtained from J.O. Murie, Department of Zoology, telephone 432-3649.

#### **ART COURSES**

The Edmonton Art Gallery is offering art courses in areas such as drawing, painting, pottery, Canadian art history, and art appreciation. Each course offers one class per week for ten weeks, beginning 27 September. For further information contact the Art Gallery, telephone 429-6781.

#### **SEMINAR ON NATIVE RELIGIOUS TRADITIONS**

As part of the University's commemoration of Treaty VII which recognizes the autonomy of native cultures, the Department of Religious Studies is hosting an international seminar on native religious traditions from 15 to 17 September. Those taking part in the lectures and discussions include specialists in Indian traditions and Elders representing the various Indian peoples. For further information telephone 432-2174.

#### **CONFERENCE FUNDS COMMITTEE**

The Conference Funds Committee of the University is intended for the financial support of conferences, conventions, and symposia of an academic nature (as distinct from visiting lectureships) held in the province and sponsored or hosted by the University. The fund is administered by a Conference Funds Committee of General Faculties Council, and is the only fund in the University for this purpose. All applications for grants should be submitted to the chairperson of the Committee. Application forms are available along with related information sheets. The current chairperson is Professor G.M. Strathern, Department of Library Science, 315 Rutherford South, telephone 432-5315.

#### **UNIVERSITY HOSPITAL DAY CARE**

The University Hospital Day Care Centre has openings for a limited number of children. These positions are being offered to the children of University staff members. The Centre is designed to accommodate children ages three to six and is open from 6:30 a.m. to 5:45 p.m., Monday through Friday. The

rate is \$75 for each two-week period. The Centre is located immediately west of the Nurses' Residence. For further information contact the Centre supervisor, telephone 433-9663.

#### **SENATE MEETING**

The University Senate will hold its first meeting of this academic year on 23 September at 9:30 a.m. in the Club Room of the Jubilee Auditorium. Its primary subject will deal with the purpose of the University. Invited academics will debate a provocative resolution about the University's role. All interested persons are invited; however, seating is limited.

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### **THIS WEEK AND NEXT**

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*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.*

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#### **15 SEPTEMBER, THURSDAY**

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##### **Civilization Series (2)**

12:30 p.m. *Cluny to Chartres, 12th century.*  
L-3 Humanities Centre.

##### **Student Cinema**

7 p.m. and 9:30 p.m. *The Last Tycoon* (United States, 1976). Directed by Eli Kazan and starring Tony Curtis, Robert De Niro, Jeanne Moreau, and Robert Mitchum. Students' Union Theatre. Admission is \$1.50 advance and \$2 at the door. Tickets available at the HUB Box Office.

##### **Native Religious Traditions Symposium**

7:30 p.m. Opening Ceremonies. Coral room A and B, Riviera Hotel.

9 p.m. "Coyoteway, a Navajo holyway healing ceremonial," a slide presentation by K. Luckert. Coral room A and B, Riviera Hotel.

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#### **16 SEPTEMBER, FRIDAY**

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##### **Native Religious Traditions Symposium**

8:30 a.m. "Myth in native North American religions," with speaker Ake Hultkrantz.

9:30 a.m. "The immediacy of mythological message: native American traditions," with speaker Joseph E. Brown.

10:45 a.m. "An approach to Navajo mythology," with speaker Karl Luckert.

11:45 a.m. "The habitual thought of the Nacirema," with speaker Leroy Little Bear. All lectures to be given in University Hall Council Chambers.

2:30 p.m. Seminars with native Elders. John Snow, 1-107 Education North; Ed Badeagle, John Yellowhorn, and Joe Crowshoe, 1-110 Education North; Joe and Beatrice Poor Eagle, 2-121 Education North; George and Emma First Rider, 2-117 Education North; Pius Dustyhorn, 2-145 Education North; Tom

Porter, 2-119 Education North; and Floyd Laughter, 2-139 Education North.

**Civilization Series (2)**

12 noon. *Cluny to Chartres, 12th century.* L-3 Humanities Centre.

**Faculty Club**

*Downstairs.* From the grill: steak sandwiches, hamburgers, french fries, hot beef dips, tossed salad.

*Upstairs.* Regular dinner menu. Reservations required. Entertainment: Redwing.

**Student Cinema**

7 p.m. and 9:30 p.m. *The Last Tycoon* (United States, 1976). Directed by Eli Kazan and starring Tony Curtis and Robert De Niro. Students' Union Theatre. Admission is \$1.50 advance and \$2 at the door. Tickets available at the HUB Box Office.

12 midnight. *Super Vixens* (United States, 1975). Directed by Russ Meyer and starring Shari Eubank, Charles Napier, Uschi Digard and Charles Pitts. Admission is \$1 advance and at the door.

**Edmonton Symphony Orchestra**

8:30 p.m. The Orchestra performs with Misha Dichter, pianist. Pierre Héту conducting. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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**17 SEPTEMBER, SATURDAY**

**Native Religious Traditions Symposium**

8:30 a.m. "Ritual in native North American religions," with speaker Ake Hultkrantz.

9:30 a.m. "The universe at prayer: a discussion of the Sacred Pipe Ceremony of the Ojibwas," with speaker J.W.E. Newbery.

10:45 a.m. "Whirling logs and colored sands," with speaker Sam Gill.

11:45 a.m. "The significance of the bear in Blackfoot religion," with speaker John Hellson.

2:30 p.m. Seminars with native Elders. John Snow, 1-107 Education North; Ed Badeagle, John Yellowhorn, and Joe Crowshoe, 1-110 Education North; Joe and Beatrice Poor Eagle, 2-121 Education North; George and Emma First Rider, 2-117 Education North; Pius Dustyhorn, 2-145 Education North; Tom Porter, 2-119 Education North; and Floyd Laughter, 2-139 Education North.

**Faculty Club**

*Downstairs.* Saturday special: beef stroganoff, noodles, salad bar, carrot cake.

*Upstairs.* Regular dinner menu. Reservations required.

**Edmonton Symphony Orchestra**

8:30 p.m. The Orchestra performs with Misha Dichter, pianist. Pierre Héту conducting. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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**18 SEPTEMBER, SUNDAY**

**Cinemothèque 16**

2 p.m. *Top Hat* (United States, 1935). Directed by Mark Sandrich and starring Fred Astaire and Ginger Rogers. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

**Silent Film Classics**

4 p.m. and 7 p.m. *The Mark of Zorro*. Starring Douglas Fairbanks Sr. Provincial Museum. Admission is free.

**National Film Theatre**

8 p.m. *The Ruling Class* (Great Britain, 1971). Directed by Peter Medak and starring Peter O'Toole and Alastair Sim. Ziedler Hall, Citadel Theatre. Admission is \$3 regular and \$2 for students and senior citizens.

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**19 SEPTEMBER, MONDAY**

**Boomer Memorial Lectures**

11 a.m. "Chemical architecture; design of ion selective components for liquid membrane electrodes of high selectivity," with speaker Wilhelm Simon. V-107 Chemistry Centre.

**Edmonton Film Society**

8 p.m. *The Marquise of O. . .* (West Germany, 1976). International Series. English subtitles. SUB Theatre. Series tickets available at Woodwards, the HUB Box Office, and at the door.

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**20 SEPTEMBER, TUESDAY**

**Boomer Memorial Lectures**

4 p.m. "The use of ion selective components electrodes—analytical, biological, and perspectives," with speaker Wilhelm Simon. V-107 Chemistry Centre.

**Student Cinema**

7 p.m. and 9:30 p.m. *Shanks* (United States, 1974). Directed by William Castle and starring Marcel Marceau and Tsilla Chelton. SUB Theatre. Admission is \$1.50 advance and \$2 at the door.

**National Film Theatre**

8 p.m. *Arabella* (Italy, 1968). Directed by Mauro Bolognini and starring Virna Lisa and J. Fox. Centennial Library Theatre. Admission is \$2 regular and \$1.50 for students and senior citizens.

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**21 SEPTEMBER, WEDNESDAY**

**Boomer Memorial Lectures**

11 a.m. "Pyrolysis/mass spectrometry—a technique that subjects even bacteria to chemical analysis," with speaker Wilhelm Simon. V-107 Chemistry Centre.

**Student Cinema**

7 p.m. and 9:30 p.m. *Small Change* (France,

1976). Directed by François Truffaut and starring Geory Desmouceaux and Phillipe Goldman. English subtitles. SUB Theatre. Admission is \$1.50 advance and \$2 at the door.

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**22 SEPTEMBER, THURSDAY**

**Boomer Memorial Lectures**

4 p.m. "Ions are transported selectively through biological membranes. What answers do chemical model systems furnish?" with speaker Wilhelm Simon. V-107 Chemistry Centre.

**Student Cinema**

7 p.m. and 9:30 p.m. *Emmanuelle, The Joys of a Woman* (France/Italy, 1976). Directed by Francis Gracobetti and starring Sylvia Kristel and Umberto Orsini. SUB Theatre. Admission is \$1.50 advance and \$2 at the door.

**Cinemothèque 16**

7:30 p.m. *The Music Room/Jalsaghar* (India, 1958). Directed by Satyajit Ray and starring Chabi Biswas. English subtitles. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

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**23 SEPTEMBER, FRIDAY**

**Sociology Lecture Series**

12 noon. "Continuity and change in social life," with speaker Gwynn Nettler. From the lecture series, *Eternal Values and Changing Fashions*. Centennial Library.

**Faculty Club**

*Downstairs.* From the grill: steak sandwiches, hamburgers, french fries, hot beef dips, tossed salad.

*Upstairs.* Friday special: chicken jambalaya, black-eyed peas, spinach, orange salad, baked pineapple. \$5.50. Also lobster, \$12.50, and regular dinner menu. Reservations required.

**Student Cinema**

7 p.m. and 9:30 p.m. *The Sorcerer* (United States, 1977). Directed by William Friedkin and starring Roy Schieder and Bruno Cremer. SUB Theatre. Admission is \$1.50 advance and \$2 at the door.

**Cinemothèque 16**

7:30 p.m. *Wild Strawberries/Smultronstället* (Sweden, 1957). Directed by Ingmar Bergman and starring Victor Sjöström and Ingrid Thulin. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

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**24 SEPTEMBER, SATURDAY**

**Faculty Club**

*Downstairs.* Saturday special: salmon wellington, potato croquettes, salad bar, lemon meringue pie. \$5.50.

*Upstairs*. Lobster, \$12.50. Also regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

#### Student Cinema

7 p.m. and 9:30 p.m. *The Sorcerer* (United States, 1977). Directed by William Friedkin and starring Roy Schieder and Bruno Cremer. SUB Theatre. Admission is \$1.50 advance and \$2 at the door.

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## EXHIBITIONS AND PLAYS

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#### University Art Gallery and Museum

*To 25 September*. "A closer look," an exhibition of scanning electron microscope photographs by David Scharf. The photographs are the result of Mr. Scharf's technique of producing electron micrographs of living specimens.

#### Rutherford House

*Continuing*. The House, 11153 Saskatchewan Drive, is furnished in its original manner. Admission is free. Tours by appointment, telephone 427-3995 weekends, 427-5708 weekdays.

#### Provincial Museum

The Museum is to change to winter hours, effective 6 September. The Museum will be open Monday to Saturday from 9 a.m. to 5 p.m. and Sunday from 11 a.m. to 9 p.m. throughout the fall and winter.

*Continuing*. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

*To 25 September*. "Toys from Switzerland," a collection of old and new handmade toys from the Smithsonian Institute. Feature Gallery 3.

#### Edmonton Art Gallery

*From 24 September*. "The John Henry Hinton photographs: China 1894-1918," a photographic overview of China at the turn of the century. The official opening of the exhibition will take place on 23 September at 8:30 p.m.

*To 21 September*. "Hendrik Bres: a one man exhibition."

*Continuing*. "The Fauve Heritage," an exhibition examining twentieth century art influenced by "Fauve" attitudes towards color.

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## NON-CREDIT COURSES

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#### WOMEN AND THE VISUAL ARTS

This course will focus on women artists, primarily active during the twentieth century, who have contributed to painting, graphics, sculpture, and the textile and ceramic arts. The work of national, regional, and local Canadian artists will be discussed as well as

international artists. Slides will be used to illustrate the lectures.

The course, conducted by the Faculty of Extension, will be held on eleven Wednesday evenings beginning 28 September, from 7:30 to 9:30 p.m. The fee is \$35 and is payable in 228 Corbett Hall. The class is limited to thirty-five participants, so early registration is advised.

#### PRIMITIVE ART

The art of primitive man is fascinating and exotic. This course, also conducted under the auspices of the Faculty of Extension, will trace origins of the art of man since the beginning of time, as well as explore the creative and artistic aspects of such cultures as those of the Pacific Islands, Central and South America, Africa, North American West Coast Indian, and Eskimo. Relationships of the decorative motifs and styles between the art of various primitive cultures will be explored. The lectures and discussions will be generously reinforced and illustrated with slides.

Beginning 27 September, the course will be held on ten Tuesday evenings from 7:30 to 9:30 p.m. Since the class is limited to thirty students early registration is advised. The fee is \$30 and is payable in 228 Corbett Hall.

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## SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS

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#### Commonwealth Scholarships

*Donor*: Commonwealth Scholarship Committee. *Where tenable*: Ghana, Hong Kong, India, Jamaica, Malaysia, Nigeria, Sri Lanka, Trinidad and Tobago, United Kingdom. *Level of study*: Graduate. *Field of study*: Limited to facilities available. *Value*: Travel expenses, living and study costs during tenure. *Number*: Variable. *Duration*: Two academic years. *Conditions*: The Scholarships are offered to Canadian citizens who have graduated from a recognized university or hold equivalent qualifications and, normally, are thirty-five years of age or younger. Candidates must return to their own country on completion of the study for which the award is intended. They must also possess a good knowledge of written and spoken English. *Closing date*: 31 October, 1977. *Further information and application forms should be requested from*: Canadian Commonwealth Scholarship and Fellowship Committee, The Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario, K1P 5N1.

#### Australia and New Zealand

##### Commonwealth Scholarships (1979)

*Donor*: The Canadian Commonwealth Scholarship Committee. *Where tenable*: Australia and New Zealand. *Level of study*: Graduate. *Field of study*: Normally unrestricted. *Value*: Living expenses and study costs plus travel expenses. *Number*: Variable. *Duration*: Two years. *Conditions*: Candidates should be Canadian citizens thirty-five years of age or younger. Candidates must return to their own countries upon completion of the study. *Closing date*: 30 December, 1977. *Further information and application forms should be requested from*: Canadian

Commonwealth Scholarship and Fellowship Committee, The Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario, K1P 5N1.

#### Australian Institute of Nuclear Science and Engineering

AINSE Research Fellowships are offered by the Australian Institute of Nuclear Science and Engineering for suitably qualified persons wishing to undertake research projects within the Institute's field of interest. Candidates for these awards must be nominated by an Australian university or the Australian Atomic Energy Commission. The closing dates are 28 February and 31 August of each year, and all nominations received by the Institute after one closing date will be considered together after the next closing date.

Research Fellowships are intended for scientists and engineers who have qualifications equivalent to the degree of PhD and are at a relatively early stage of an independent research career. Minimum tenure is two years. Emolument will be within the range of \$11,000 to \$16,000 per annum (\$1 Australian = \$1.17 Canadian) and the Institute may contribute the cost of travelling to and from Australia.

A research project within the field of nuclear science and engineering of interest to the Institute may be proposed in the nomination after agreement between the candidate and the nominating organization. Usually it is expected that a Research Fellow's project will require some use of the specialized facilities located within the Australian Atomic Energy Commission's Research Establishment at Lucas Heights, near Sydney, New South Wales.

*Further information may be obtained from*: The Executive Officer, Australian Institute of Nuclear Science and Engineering, Private Mail Bag, Sutherland, 2232, Australia.

#### St. John's College, Cambridge, Commonwealth Fellowship, 1978

The Council of St. John's College, Cambridge, invites applications for a Commonwealth Fellowship for the year 1978-79. The Fellowship, which is offered annually, is intended to afford a scholar, who is a citizen of an overseas Commonwealth country or of the United Kingdom and on leave of absence from an overseas Commonwealth university, the opportunity to pursue his own study and research as a member of a Collegiate Society and to make contacts with scholars in Great Britain. It is intended for scholars holding academic posts, irrespective of seniority, and not for men still working toward post-graduate degrees. Candidates who have held University posts, including Visiting Fellowships, in the United Kingdom in the five years immediately preceding the academic year 1978-79 will not be considered.

The Fellowship entitles the holder to a room in College free of rent if he should require it, and to the other rights and privileges of a resident Fellow together with an honorarium at the rate of £500 (£1 = \$1.85 Canadian) a year. Election is made for one year. While it is expected that the Fellow will wish to spend the greater part of his time in Cambridge, he will not be restricted by definite rules of residence.

The College Council proposes to make the election in March 1978. The academic year at Cambridge begins on 1 October and the Commonwealth Fellow will be expected to enter upon the Fellowship as soon after that date as is convenient and not later than April 1979.

Application for the Fellowship should be made to the Master, St. John's College, Cambridge CB2 1TP, to reach him not later than 15 January 1978 and should be accompanied by the candidate's full name, the date and place of his birth, his present appointment, his previous career, his qualifications, his plans and the approximate date at which he

would propose to come into residence, and by the names and addresses of not more than three persons acquainted with the candidate, to whom the Council, if they wish, may refer. Testimonials should not be sent.

## POSITIONS VACANT

### Secretary I

#### Department of Radiation Oncology

A Secretary I is required to work full-time in the Department of Radiation Oncology to type medical reports, arrange appointments, follow up various reports and to do general secretarial duties.

Applicants must have typing ability of fifty words per minute or better, dictaphone experience, familiarity with medical terminology, as well as at least one year of medical secretarial experience.

Applicants should apply in writing to: The Director of Personnel, Dr. W.W. Cross Cancer Institute, 11560 University Avenue, Edmonton, T6G 1Z2

### NON-ACADEMIC POSITIONS

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 9 September

Library Clerk I (\$322-\$361, half-time)—Faculty of Extension  
 Clerk Typist II (\$644-\$751)—Secondary Education; Faculty of Extension; Faculty of Medicine  
 Accounts Clerk I (\$644-\$779)—Office of the Comptroller, Payroll  
 Clerk Steno II (\$644-\$779)—Canadian Institute of Ukrainian Studies; Anatomy; Education, Dean of Education's Office; Geography  
 Purchasing Clerk (\$670-\$811)—Purchasing  
 Switchboard Operator (\$696-\$843)—Administrative Services  
 Clerk Typist III (\$696-\$843)—Office of the Registrar  
 Senior Clerk (\$696-\$843)—Special Sessions  
 Clerk Steno III (\$360, half-time)—Introductory Biology  
 Clerk Steno III (\$721-\$877)—Obstetrics and Gynaecology  
 Admission Records Trainee (\$751-\$914)—Office of the Registrar  
 Medical Steno (\$779-\$952)—Psychiatry  
 Administrative Clerk (\$843-\$1,034)—Faculty of Medicine  
 Departmental Secretary/Coordinator (\$914-\$1,125)—East European Studies  
 Departmental Secretary (\$914-\$1,125)—Anatomy  
 Computer Assistant I (\$644-\$779)—Computing Services (two positions)  
 Animal Assistant I (\$670-\$811)—Bioscience Animal Services  
 Laboratory Assistant II (\$670-\$811)—Provincial Laboratory  
 Dental Assistant (\$670-\$811)—Faculty of Dentistry (two positions)  
 Housing Worker (\$4.02 per hour)—Housing and Food  
 Laboratory Assistant III (\$751-\$914)—Anatomy  
 Building Services Worker II (\$751-\$914)—Housing and Food Services  
 Technician I (\$843-\$1,034)—Mechanical Engineering; Geology, Palaeontology  
 Civil Engineering Technician I (\$843-\$1,034)—Civil Engineering  
 Dental Technician I (\$877-\$1,078)—Faculty of Dentistry  
 Computer Operator I (\$877-\$1,078)—Computing Services  
 Technician II (\$952-\$1,173)—Mineral Engineering  
 Bacteriology Technologist I (\$952-\$1,173, trust)—Medical Bacteriology

Laboratory Technologist I (\$952-\$1,173)—Provincial Laboratory  
 Plant Operator I (\$1,034-\$1,278)—Physical Plant Utilities  
 Administrative Assistant (\$1,078-\$1,335)—Computing Services  
 Dental Equipment Repair Technician (\$1,078-\$1,335)—Faculty of Dentistry  
 Programmer Analyst II (\$1,125-\$1,393, term)—Office of Energy Management  
 Programmer Analyst II (\$1,125-\$1,393)—Business Administration and Commerce  
 Programmer Analyst II/III (\$1,125-\$1,660)—Computing Services  
 Programmer Analyst III/IV (\$1,335-\$1,985)—Office of Administrative Systems

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.*

Library Clerk II (\$644-\$779)—Cataloguing  
 Bookkeeper II (\$721-\$877)—Administration  
 Library Clerk III (\$696-\$843)—Cataloguing  
 Library Assistant I (\$751-\$914)—Government Publication; Cataloguing; Bibliographic Verification

## PERSONAL NOTICES

*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

### Accommodations available

For rent—Blue Quill. Executive three-bedroom bungalow; family room, fireplace, carpeted, five appliances, two baths. Singles accepted. Available 1 September. 432-5653, days; 434-0197.  
 For sale, rent, or trade—1,400-square-foot three-bedroom bungalow with panoramic seaview of Departure Bay in Nanaimo. .29-acre fully landscaped lot includes guest cottage. 489-5623.  
 Garneau—For sale, or rent to qualified persons. Two-storey three-bedroom upgraded home on 85 Avenue. Applications and details, 432-7845 between noon and 9 p.m.  
 Subletting—two-bedroom apartment, furnished or unfurnished. 111 Street, 87 Avenue. 1 January - 31 August 1978. 432-5678.  
 For sale—three-bedroom house in Malmo; 1½ baths, rumpus room, bar, and office finished in the basement; double, heated garage. Landscaped with mature trees. Near schools, shopping and bus route. Telephone 435-6722.  
 Reduced \$10,000—for immediate possession. Four-bedroom traditionally styled two-storey on large treed lot in old Riverbend. Many attractive features. Very good value. Mrs. Anderson, Royal Trust 435-4869; residence, 434-4460.  
 For rent—15 September. Four-bedroom home. New kitchen, fridge, and stove; beautiful big garden in quiet south-side crescent, ten minutes to University. Rent: \$475. References. Telephone 466-7595.  
 For sale—bi-level; by owners. Rio Terrace, ten minutes from University. Living room with fireplace, dining room, extra large kitchen, three bedrooms, 1½ bathrooms, utility room on upper level. Family room with fireplace, bedroom, and large games room (or second bedroom) on lower level. Attached double garage. Large fully landscaped lot with many

mature trees, on quiet street with schools, bus, and playgrounds one block away. Telephone 487-3304 for appointment to view.

Sublet—fully furnished central apartment. November - May. Deluxe two-bedroom; 1½ baths, dishwasher, color TV, cable, pool, sauna; heated parking; near shopping, bus. Married couples only. No pets. \$450. 482-2855.

For sale—south-side. You must see this spotless three-bedroom bungalow. Double garage, recreation room. Two bedrooms, three-piece bath in basement. Immediate possession. Close to bus. R. Richter, 488-6930. Weber Bros., 455-4135.

For sale—by owner. Glenora, two-storey seven-room house, 2½ baths, 1,688 square feet. Large bedrooms, main floor den, many extras. Near bus to University. Asking \$79,500. 452-0618.

Fourth person, teaching staff or graduate students, to share fine, large house near University. Nonsmoker. 452-2420.

For rent—one-bedroom house with basement, rumpus room. Close to University. In good condition with huge yard plus garage. \$385/month. 436-1134.

For rent—three-bedroom condominium. Full basement, double carport, fireplace, fenced patio, appliances. On bus route. 70 Street and 31 Avenue. Reasonable rent. 462-7585.

By owner—5 acres. House finished up and down. Large family room with fireplace, rumpus room, very large workshop, and garage insulated and heated with natural gas. Small barn and chicken coop and metal tool shed. Close to the south side of city. Valued at \$128,000, asking \$110,000 with many extras. Immediate possession. 986-6772 evenings.

For sale—split-level house, good condition. Quiet location. Close to University. Telephone 433-8395.

For sale—west end. Three-bedroom home, excellent condition. Basement developed, double garage, immaculate condition. 1 October possession. Telephone Boris Kozakovich, 484-1381. Kellough Realty, 426-7141.

For sale—by owner. Unique six-year-old 2300-square-foot home with eight rooms, 2½ baths, 14 by 32 foot deck, cedar exterior. Efficient hot water heating system. Good deep well. Gas-heated double garage, and greenhouse. Natural setting with large trees, garden, trails, and pond. Twenty miles to Edmonton, near Elk Island Park. \$121,500. Telephone 998-2790 evenings.

For sale—near University. Large semi-bungalow. Three bedrooms, main floor den, dining room, double garage. Mrs. Proudfoot, 435-4869; residence, 436-2556. Royal Trust Corporation.

### Accommodation wanted

House wanted—Belgravia couple require three-bedroom home with large living room. Will pay up to \$100,000. Also small home required in Windsor Park. Please call Dorothy Hamilton, 439-7371 or 436-8509, Kellough Realty.

### Automobiles and accessories

1973 Pontiac Custom Ventura four-door. Air conditioned, power steering, power brakes, AM/FM radio. Telephone 434-7965.  
 1970 Datsun—510. Cheap transportation; good running condition. Telephone Ed, 998-9107 evenings.  
 For sale—1973 Chev Impala, 77,000 miles. Power steering, power brakes, four-door. Very good condition. \$1950 or best offer. 988-8218.  
 Selling—a pair of styled wheels and shop manuals for Capri 2000. 435-3122.  
 1974 Chevelle Malibu Classic, 48,000 miles, 350 V8, power steering, power brakes, radial tires, perfect condition, \$2,700; 432-5511; 436-2856.

### Goods and services

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Babies—three- to nine-months-old volunteers needed for a short observation of early learning.  
Dr. Cornell, 432-5216.

Antiques from England—Victorian furniture, tables, chairs, sideboards, chests, bookcases, stools, dolls, jewelry, clocks, porcelain—Derby, Doulton, Dux, Dresden, Worcester, Oriental. Art nouveau, art deco, commemoratives, carnival glass, pictures, gifts, collectables. Mary Goulden Antiques. Horsehill Hall, from junction 137 Avenue and 50 Street, drive five miles north, then 1½ miles east. 2 - 8 p.m. Thursday through Sunday. 973-3656, 475-8139. Also at corner of 109A Avenue and 135 Street. Thursday, Friday, Saturday, 10 - 5 p.m. 452-0397.

Planning to have your yard seeded or sodded? To have it tilled and levelled, telephone Slavko's Landscaping (Jerry's) 439-3531. Will also cut your grass when you're away. Good dependable service. Rampart Construction Ltd. Telephone 474-9721 between 10 a.m. - 3 p.m. for estimates. Major or minor renovations and additions.

Susana Singer teaches piano; advanced, elementary students. Preparation for Western Board, Toronto Conservatory exams. Petrolia area. 434-0574. Quality interior home painting. Licensed, bonded. Reasonable. 436-2988 or 432-7064.

Landscaping, leveling, sodding, yard maintenance, all Bobcat-type work. Telephone 462-2878. Assorted rifles—22s, shotgun, .303. Telephone 436-2988. Typing—Reasonable rates, Mrs. Hlus 484-2629. Expert typing of theses. Telephone 455-0641.

Must sell—Lady's sheep-skin winter coat, size 10; Yamaha classical guitar with case; new pair of brown leather fashion boots, 8½B; Schick hair dryer. Accepting reasonable offers. Telephone 439-5827 mornings.

The Faculty Club has for sale a 5' by 10' Brunswick Pool table complete with two cues, numbered balls and marker board. Can be seen at the Faculty Club, University of Alberta.

International Folk Dancing—Tuesday evening 8-10 p.m., McKernon Community Hall, 114 Street and 78 Avenue. Starts 20 September. Instruction provided.

Windsor Park—after school and lunch care for six-year-old girl required; 439-1266 or 432-3051. Avon—be good to yourself. Right now, people want to buy Avon and we've never looked so good. Our new prestige jewellery, and fabulous Candid makeup are making news. Our new Christmas gifts are the best ever; earnings are excellent; no experience needed. Mrs. Houghton, 465-1088. Bar—partially finished. Gold burlap and wood fronting, fir top. About six feet long, \$40. Two speakers (not matched), \$15 for both. 432-4330, 439-4767.

For sale—fresh lamb, freezer-ready, \$1.25/lb. 432-3414; 963-3238.

Fifteen-foot fibreglass canoe, 433-5591 after 6 p.m. Employment opportunity—the Belgravia School lunch program requires a substitute supervisor, hours 11:30 to 1:00. Telephone Sandy McLeod, 435-7404. Wanted—babysitter to come to my home two, possibly three, mornings a week. Windsor Park area. 433-5939.

Beautiful, rich tone, full-size, upright piano. Completely re-finished, tuned, regulated. Kranich and Bach. \$1,000 firm, delivery included. 436-1879.



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